

## Freight Rail -- Universal Communication Interface (UCI)

The Freight Rail UCI is a set of protocols that is required to be used in the transmission of data between the grantees' commercial rail tracking system and TSA. Use of the Freight Rail UCI will ensure a common computer language is used so that the tank car data, shipment data and the location data can be read by TSA and is transmitted in a consistent manner regardless of the vendor. The Freight Rail UCI will also ensure that all of the necessary data elements are included. TSA plans to utilize this data to populate a GPS monitoring and analysis system which will assist in identifying and/or responding to potential security threats regarding tank car movements of TIH material. The data elements that will be used in the UCI include, but are not limited to, the following:

- Tank car data
  - Initial and number
  - Owner or Leaser
  - Contact Information (Name, Address, Email, Telephone Number, etc.)
- Shipment data
  - Commodity (Proper Shipping Name, STCC, etc.)
  - Loaded or empty (empty includes residue cars)
  - Current status
  - Origin
  - Destination
  - Shipper contact information (Name, Address, Email, Telephone Number, etc.)
- Location information
  - Latitude
  - Longitude
  - Direction, as applicable
  - Date/time of last position reporting
  - Whether or not the tank car is located in an HTUA

The specific details regarding the UCI will be released to the applicants upon the grant award.